

## *Properties of SHINKOLITE™ FR3*

Property	Test Method	Unit	FR3	
General	Density <sup>a, b</sup>	ISO 1183-1: method A or C, or ISO 1183-2	g/cm <sup>3</sup>	1.20
Optical	Total luminous transmittance <sup>a</sup>	ISO 13468-1	%	93
	Haze <sup>a</sup>	ISO 14782	%	0.5
Mechanical	Tensile strength	ISO 527-2/1B/5	MPa	60
	Tensile strain	ISO 527-2/1B/5	%	3.0
	Modulus of elasticity in tension	ISO 527-2/1B/1	MPa	3200
	Flexural Strength	ISO 178	MPa	80
	Charpy impact strength (Unnotched)	ISO 179-1/1FU	KJ/m <sup>2</sup>	11
	Rockwell Hardness	ISO 2039-2	Scale M	95
Thermal	Temperature of deflection under load	ISO 75-2: method A	°C	75
	Linear expansion coefficient	ISO 11359-2	°C <sup>-1</sup>	7E-05
Miscellaneous	Flammability	UL 94 <sup>c</sup>		V-0
	Water Absorption (Saturated)	MCC method	%	2.0

a For transparent, colorless material.

b Colored sheets may have a higher value.

c For transparent, thickness 3mm to 5mm

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Typical values should not be used for specification purpose.

***ShinkoLite***<sup>™</sup>  
The art of performing beauty

<https://www.m-chemical.co.jp/shinkolite/index.html>

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